

BACTERIA WITH ALTERED DNA ADENINE METHYLASE
(Dam) ACTIVITY AND HETEROLOGOUS EPITOPE

ABSTRACT OF THE DISCLOSURE

Immunogenic compositions are disclosed which are comprised of bacteria which are pathogenic in their native state but which are rendered non-pathogenic in a manner which alters the native level or activity of DNA adenine methylase. The genome is also artificially engineered to express a heterologous antigen such as an immunogenic antigen of a virus, protozoa, parasite or fungi.